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Results from the Pierre Auger Observatory

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The status of the observation of Ultrahigh-Energy cosmic rays by the Pierre Auger Observatory will be reported. The resulting spectrum, composition and anisotropies provide important constraints for the origin of these particles. The recent dipole detection suggest that above the ankle CRs are predominantly of extragalactic origin. Searches of anisotropies on smaller angular scales have been performed at the highest energies. The trends towards heavier composition for increasing energies together with the observed suppression in the spectrum at the highest energies can help to discriminate between scenarios with a maximum rigidity at the sources and those in which the suppression is just a propagation effect. Upper bounds on photon and neutrino fluxes have been set.

Primary author: Prof. ROULET, Esteban (Centro Atómico Bariloche)

Presenter: Prof. ROULET, Esteban (Centro Atómico Bariloche)

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